

### REMARKS

We acknowledge the Examiner's indication that claims 7 and 8 are allowable if amended to be in independent form and to include the features recited in any base and intervening claims. Claims 2-8, 10, 12, and 13 are currently pending with claims 2, 4 and 12 being independent. We have amended independent claims 2, 4, and 12 have added dependent claim 14.

#### Prior Art Rejections

##### *Independent Claims 2 and 4*

The Examiner rejected claims 2, 3, 4, and 10 as being unpatentable over Graham et al. (U.S. Patent No. 5,072,195 hereinafter "Graham") in view of Shigenori (U.S. Patent No. 6,693,862 hereinafter "Shigenori"). The Examiner acknowledges that Graham fails to disclose a first reference signal that is a wobble signal of an optical disc and that a second reference signal is a land prepit signal of the optical disc. The Examiner however believes that, as evidenced by the Shigenori patent, these features are well known in the art. The Examiner argues that it would have been obvious to a person of skill in the art to provide these features to Graham's device "in order to make the PLL circuit being implemented for generating a clock for a data recording system, as taught by Shigenori" (see Page 3 of the office action).

We disagree that a person of skill in the art would modify Graham's phase lock loop with the teaching of Shigenori for the reasons set forth in the reply to office action mailed September 13, 2005. Nevertheless, in the interest of expediting prosecution of the application and because the applicant is considering broader protection of his invention through a continuation application we further submit that neither Graham nor Shigenori discloses the PLL circuits recited in amended claims 2 and 4. In particular, neither Graham nor Shigenori discloses a first phase comparator including a leading edge comparator, a trailing edge comparator, and an adder.

We further submit that because claims 3 and 10 depend from independent claims 2 and 4 respectively, these dependent claims are patentable for at least the same reasons that claims 2 and 4 are patentable.

The Examiner rejected dependent claim 5 as being unpatentable over Graham in view of Shigenori and further in view of Lee (U.S. 5,734,301). The Examiner also rejected dependent claim 6 as being unpatentable over Graham in view of Shigenori and further in view of Lee and still further in view of Yoshizawa (U.S. 5,909,474). Lee and Yoshizawa were cited as disclosing the feature recited in dependent claims 5 and 6, respectively. We submit however that neither Lee nor Yoshizawa disclose the feature found to be lacking in both Graham and Shigenori. Thus, we submit that dependent claims 5 and 6 are patentable for at least the same reason that independent claim 4 is patentable.

*Independent Claim 12*

The Examiner rejected claims 12 and 13, 3, 4, and 10 as being unpatentable over Graham in view of Shigenori. We disagree that a person of skill in the art would modify Graham's phase lock loop with the teaching of Shigenori for the reasons set forth above. Nevertheless, we further submit that neither Graham nor Shigenori discloses a method for generating a clock signal using first and second PLL circuits including comparing a leading edge of the first reference signal and a leading edge of a first divisional clock signal, comparing a trailing edge of the first reference signal and a trailing edge of the first divisional clock signal, and adding the leading edge comparison signal and the trailing edge comparison signal, as recited in amended claim 12. Accordingly, we believe that the present invention is patentable over Graham in view of Shigenori.

We further submit that because claim 13 depends from independent claim 12, this dependent claim is patentable for at least the same reason that claim 12 is patentable.

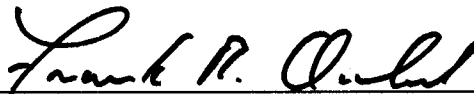
The RCE fee (\$790.00) and the Petition for Extension of Time Fee (one month) (\$120.00) are being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other charges or credits to Deposit Account No. 06 1050, referencing Attorney Docket Number referencing Attorney Docket Number 10449-042001.

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Respectfully submitted,

Date: March 27, 2006

A handwritten signature in black ink, appearing to read "Frank R. Occhiuti", written over a horizontal line.

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